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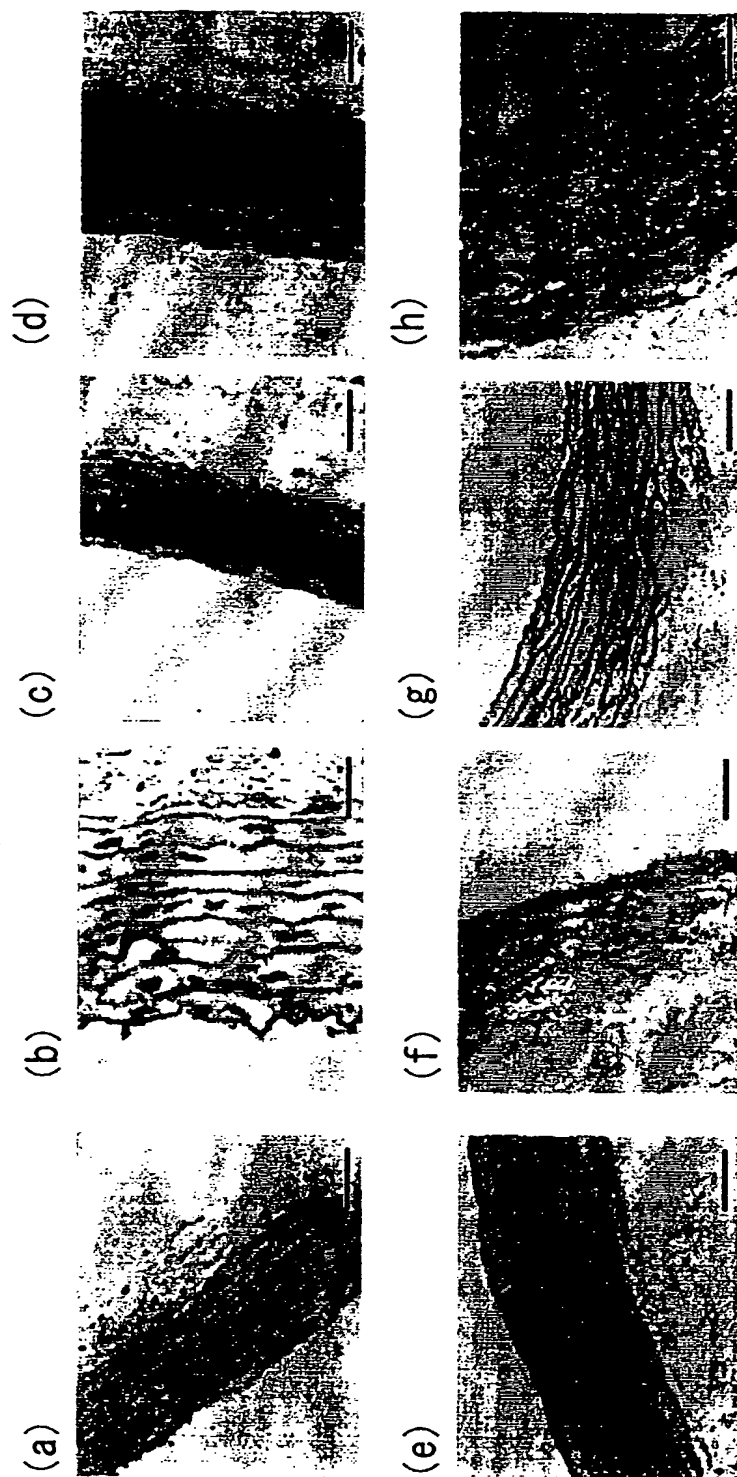


FIG.1

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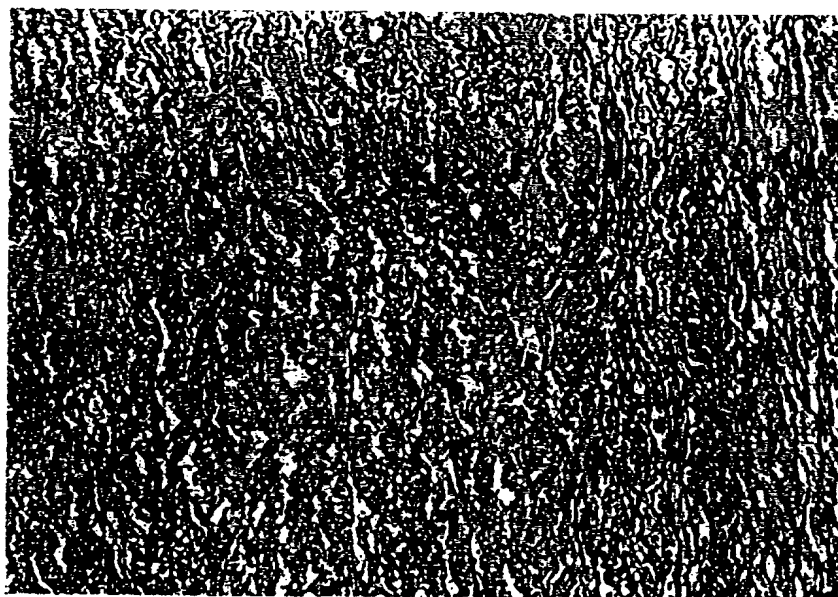
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**FIG.2**

(a)



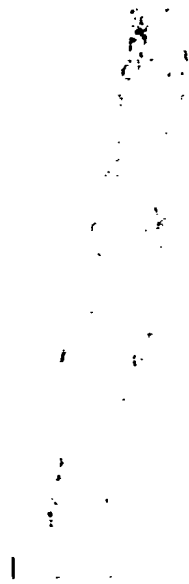
(b)



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**FIG.3**

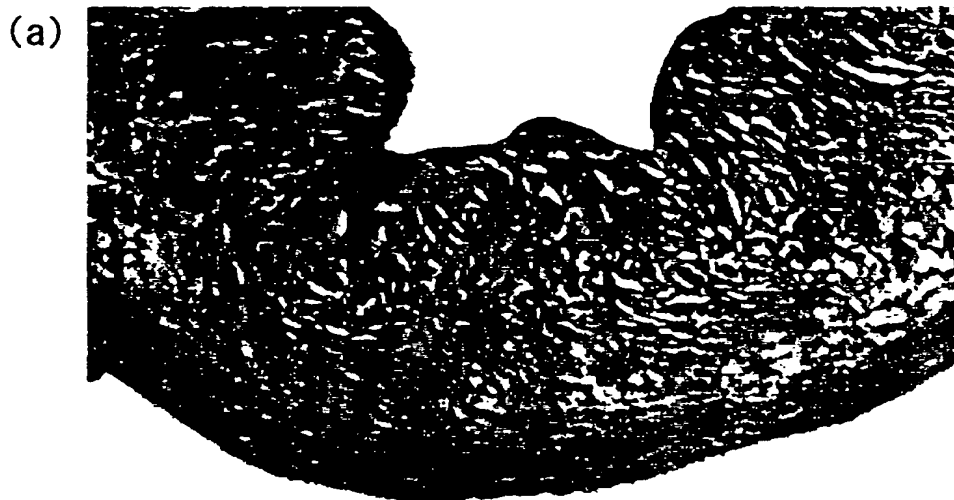
(a)



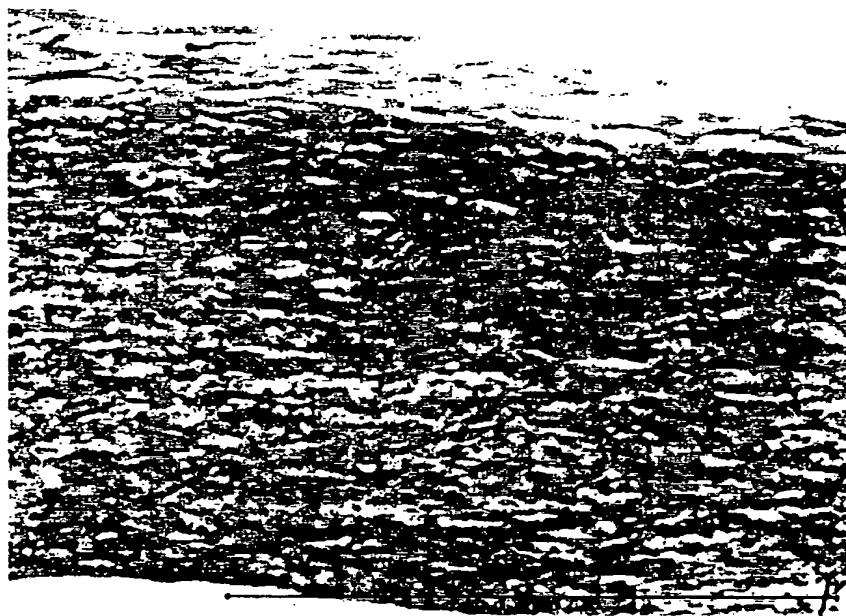
(b)



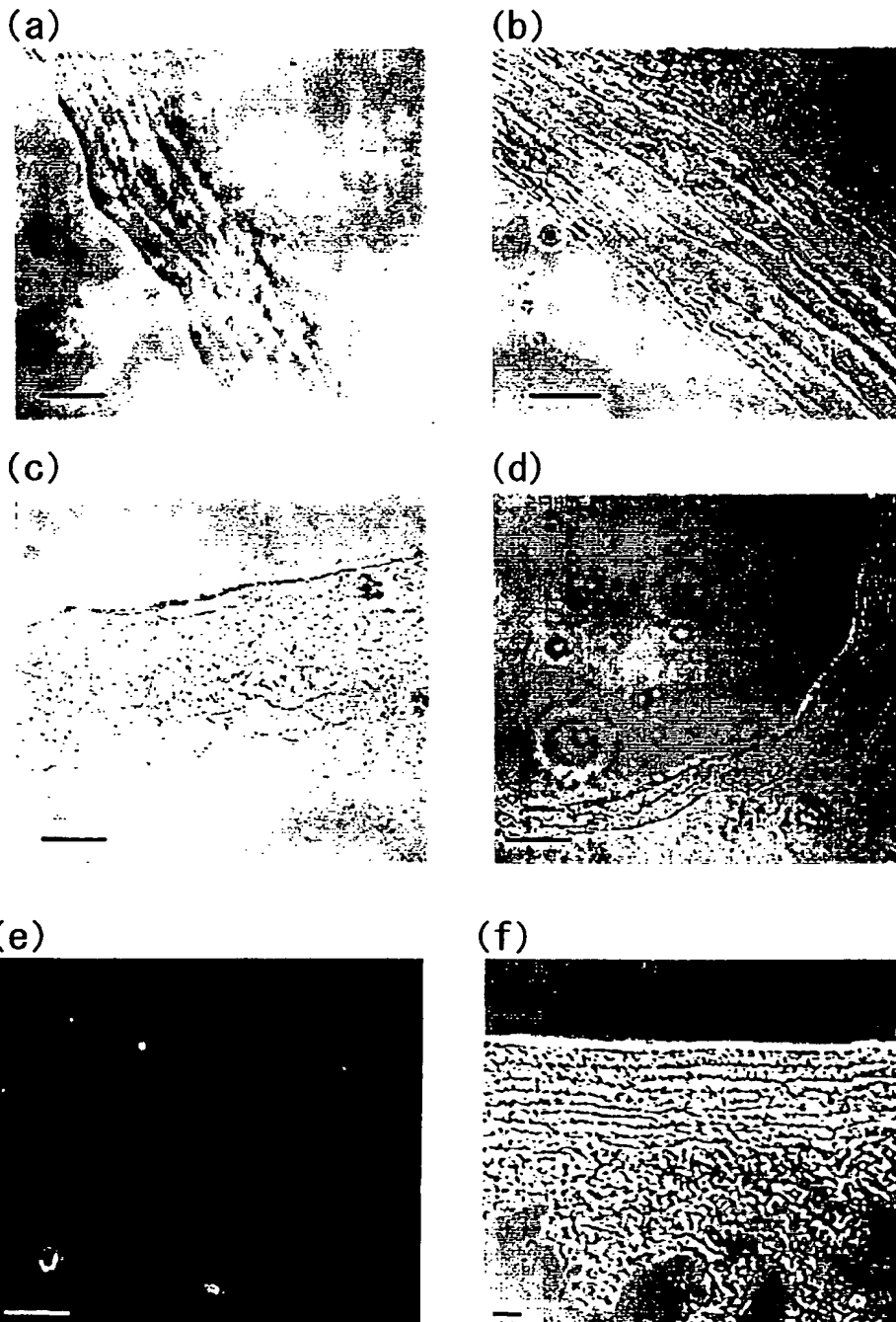
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**FIG.4**

(b)

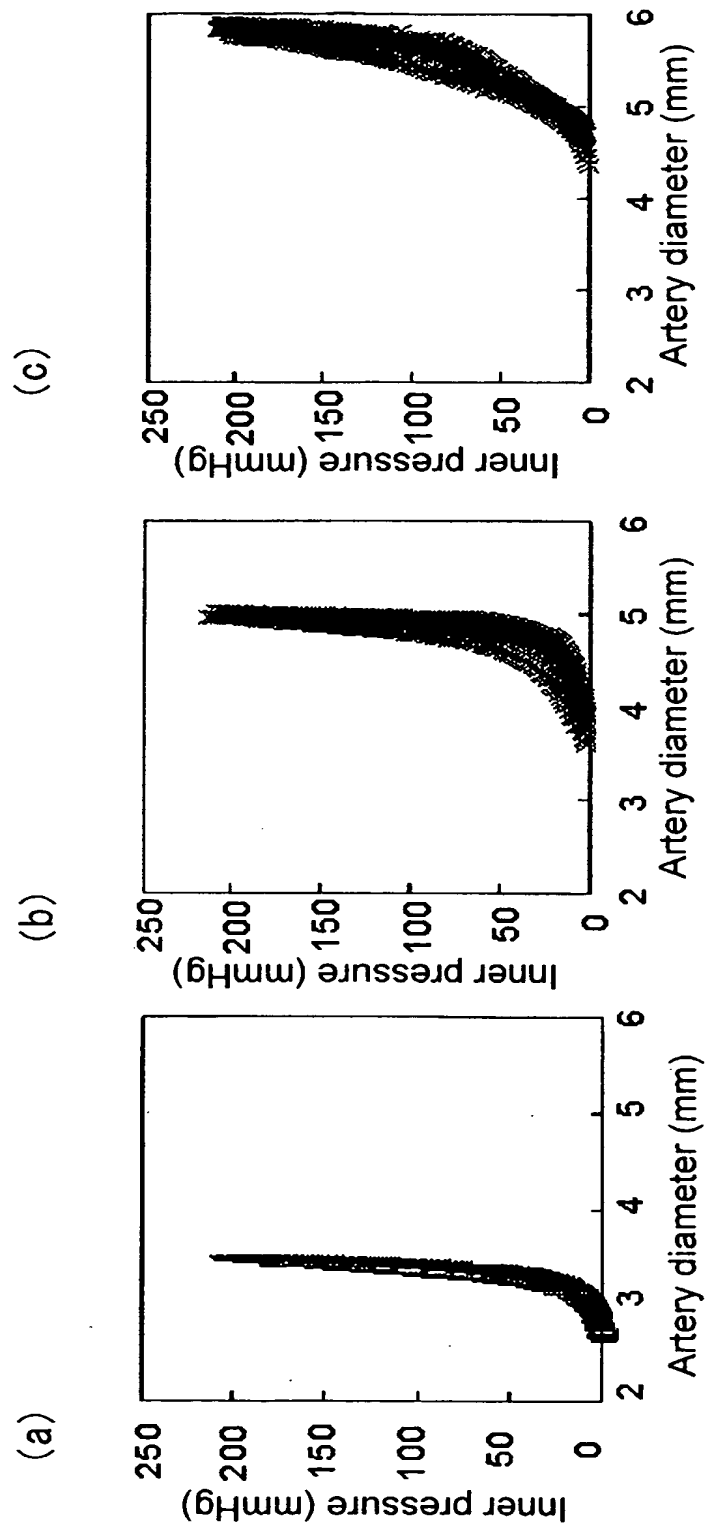


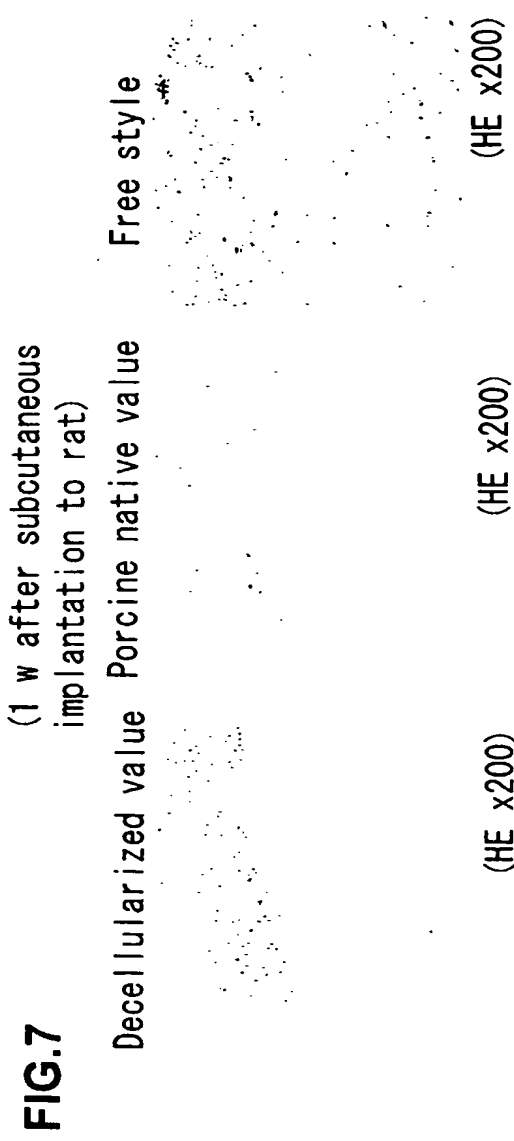
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**FIG.5**

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FIG.6

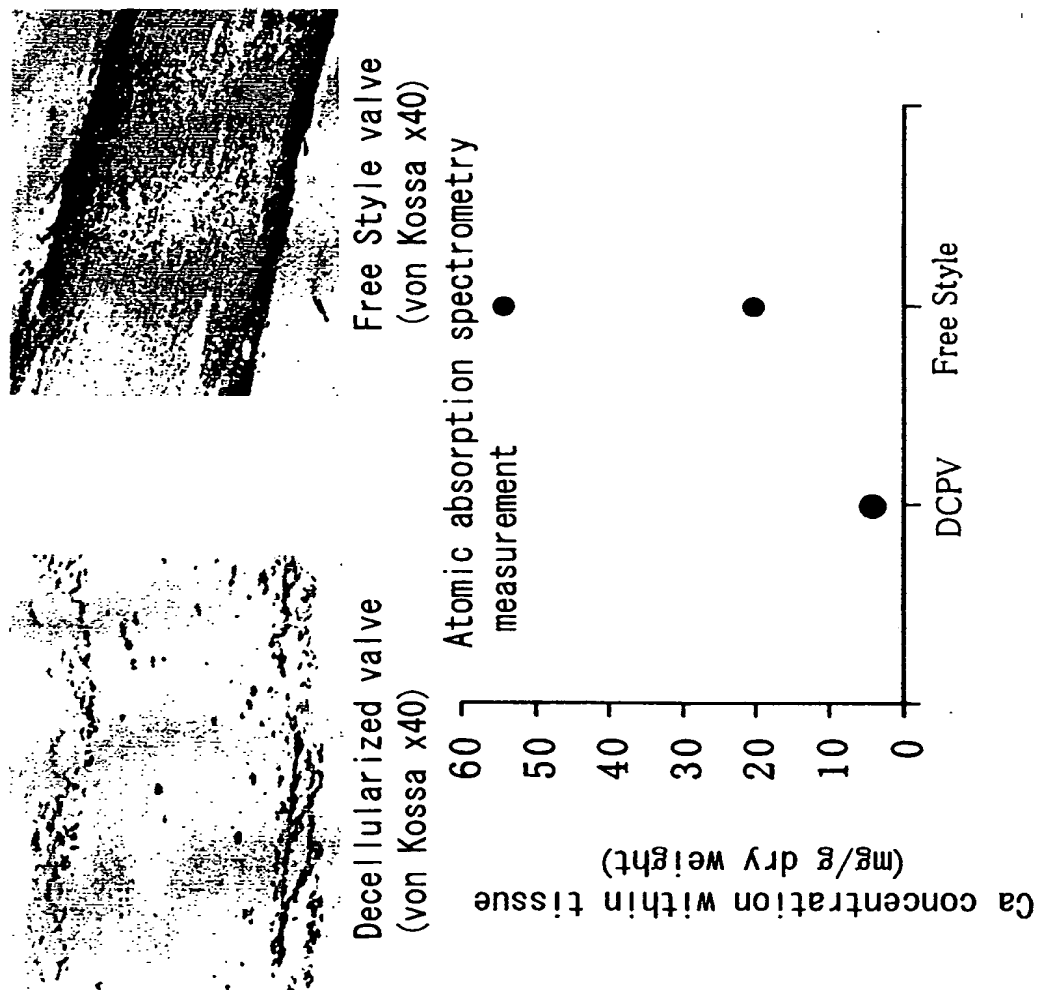




Subcutaneous implantation	Decellularized value	Porcine native value	Free style
Cell infiltration score	0~1	2	0~1
0: no infiltration, 1: 1-2 cell layers, 2: multiple layers			

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FIG.8





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**FIG.9**

(a)



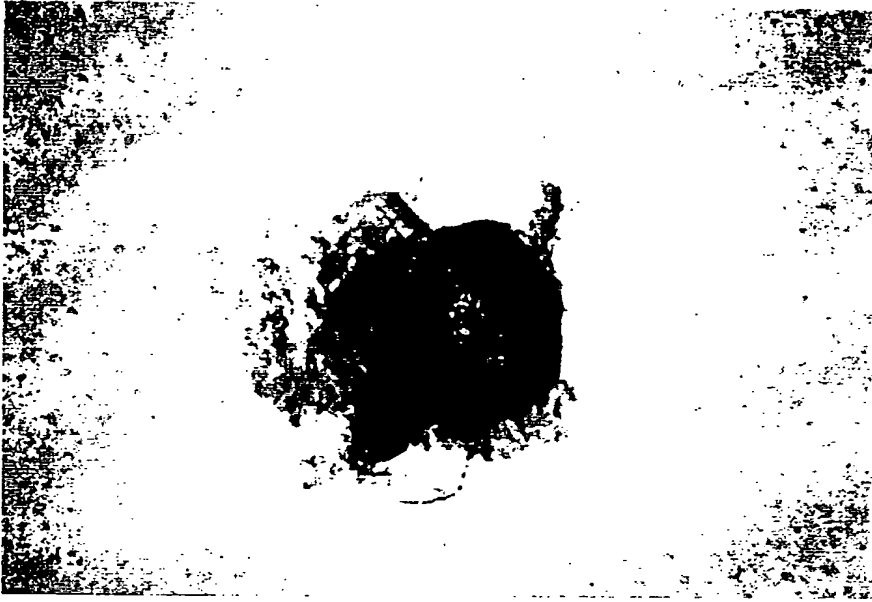
(b)



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**FIG.10**

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**FIG.11**

(a)

Day 10 (SDS)



(b)

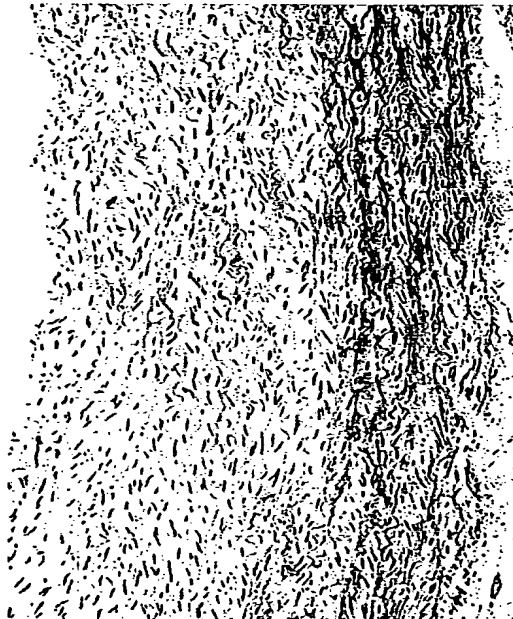
Day 10 (PEG)



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**FIG.12A**

porcine (Hematoxylin-Eosin)



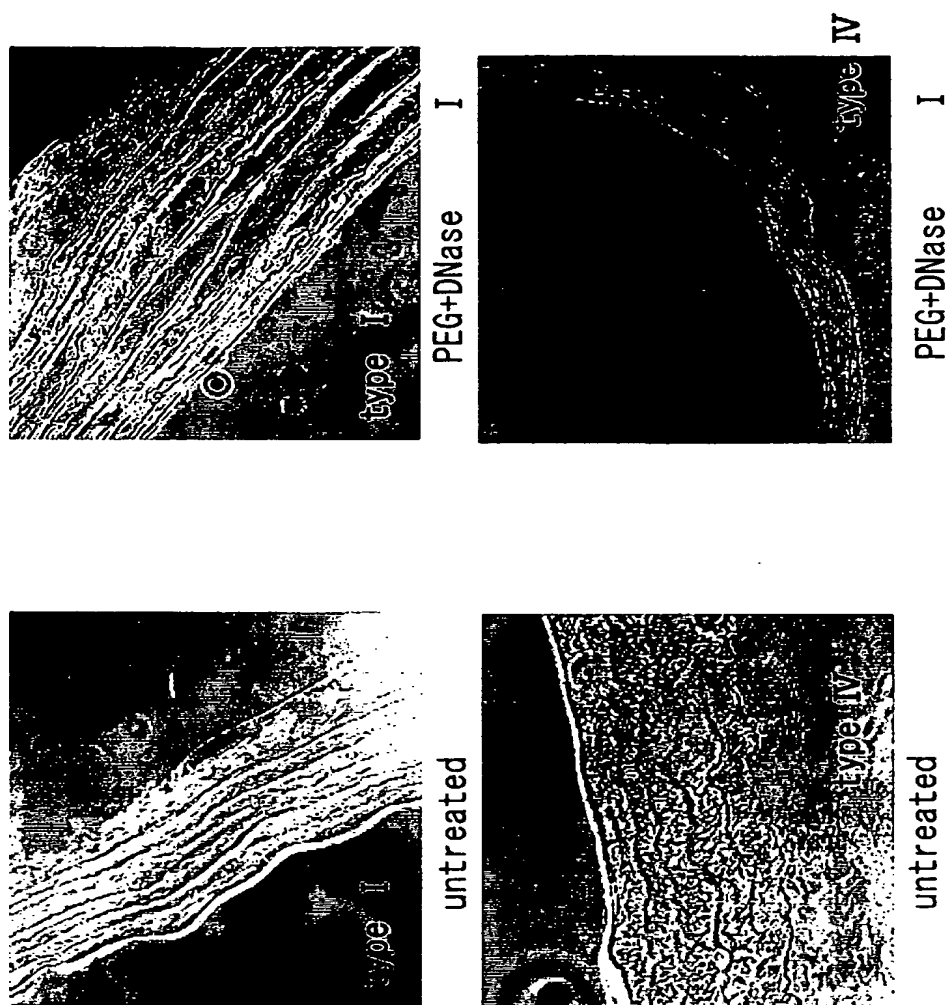
untreated



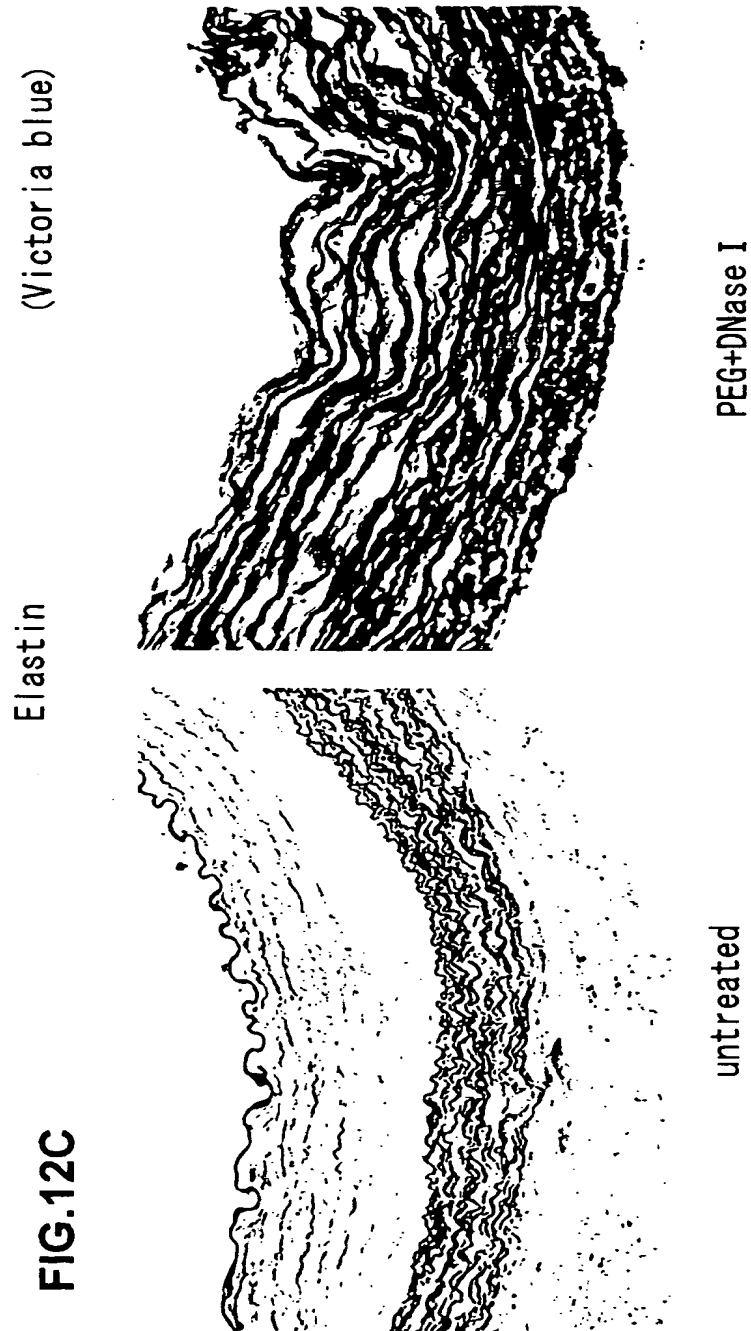
PEG+DNase I

**FIG.12B**

collagen



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**FIG.13A****Experimental protocol**

1. Collection of porcine artery (inner diameter: 3-4 mm)
2. Decellularization (PEG+DNaseI)
3. Implantation into canine (carotid or femoral a.)
4. Excision of graft



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**FIG.13B**

(Hematoxylin-Eosin)

Postoperative day 2

Postoperative day 5

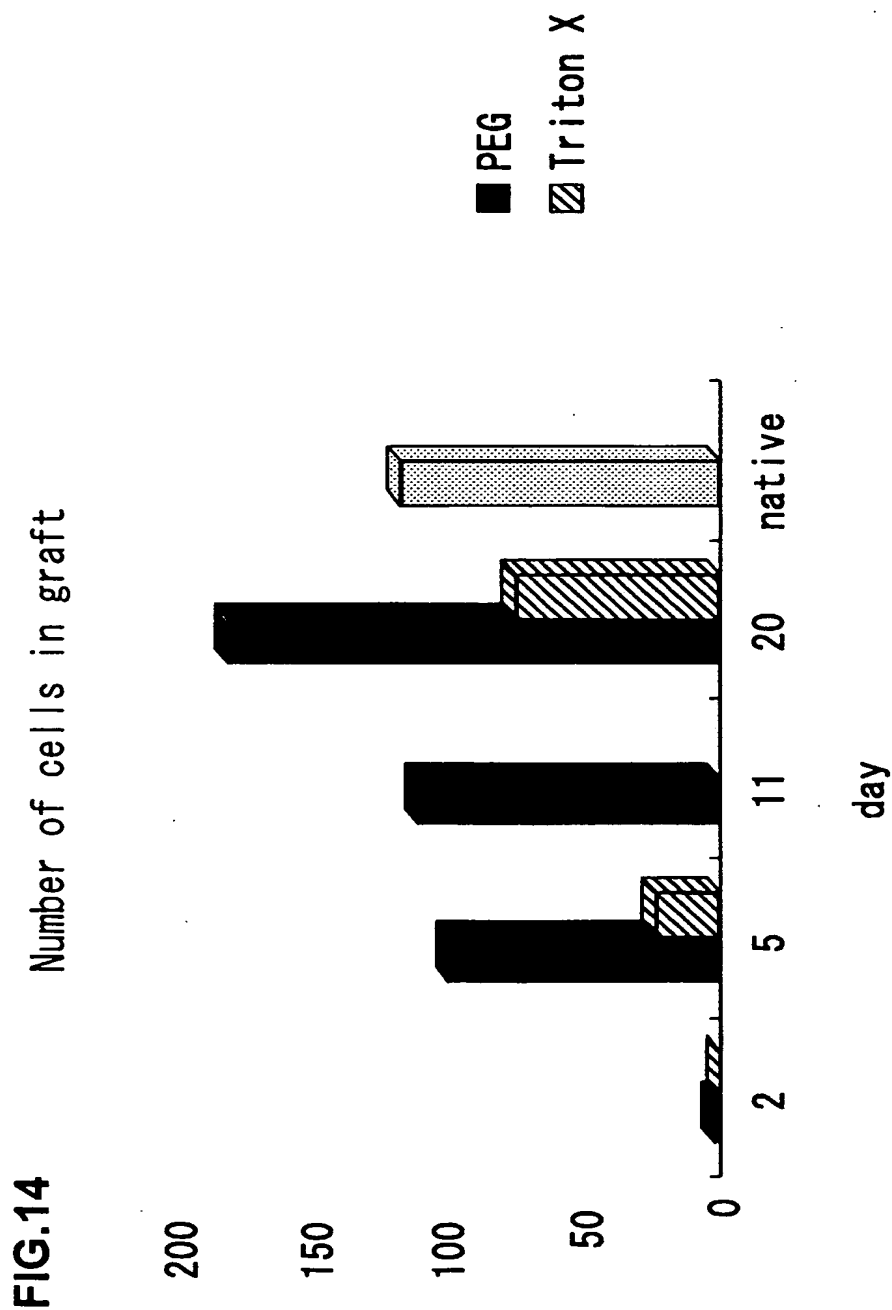


Postoperative day 11

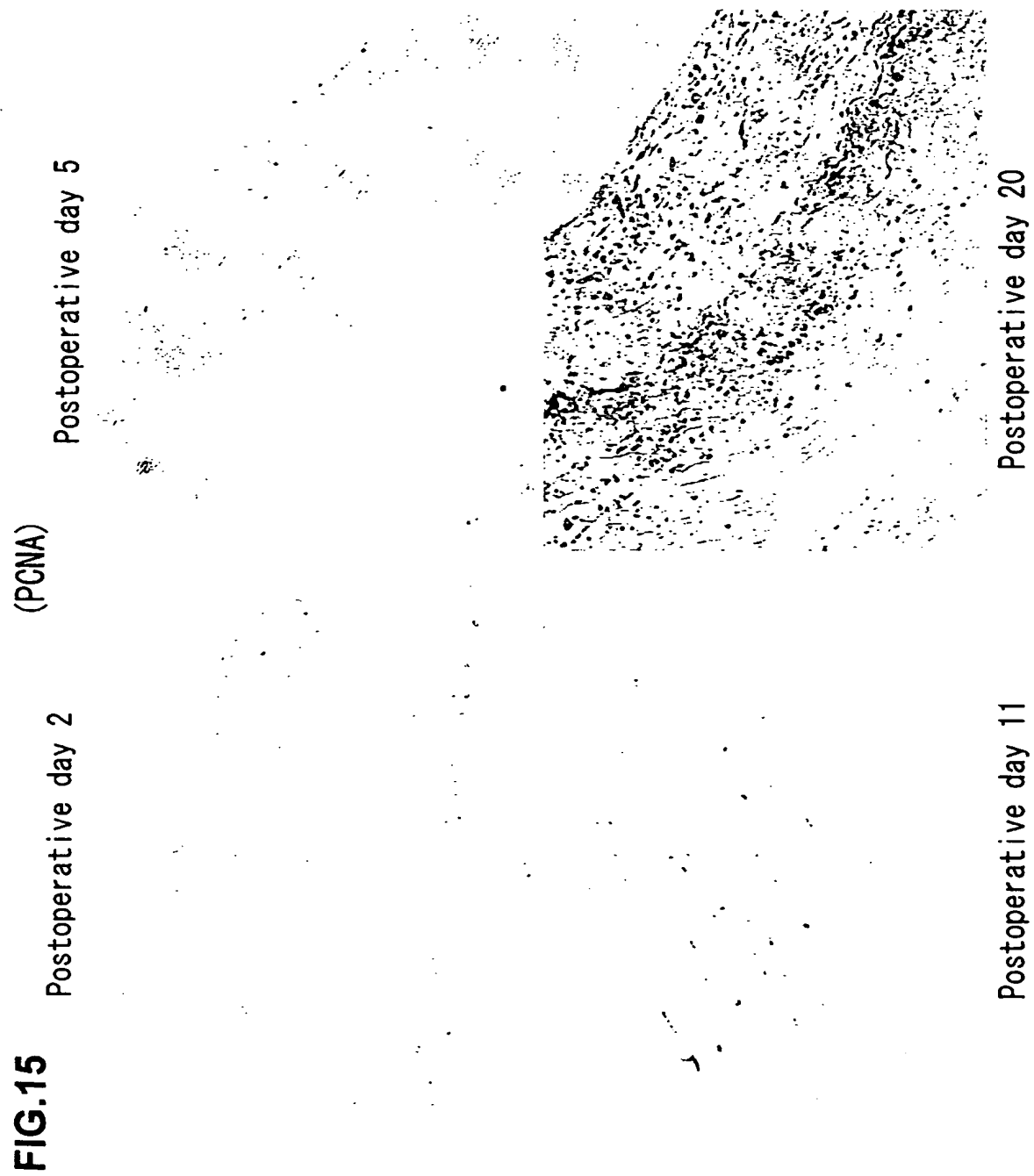
Postoperative day 20



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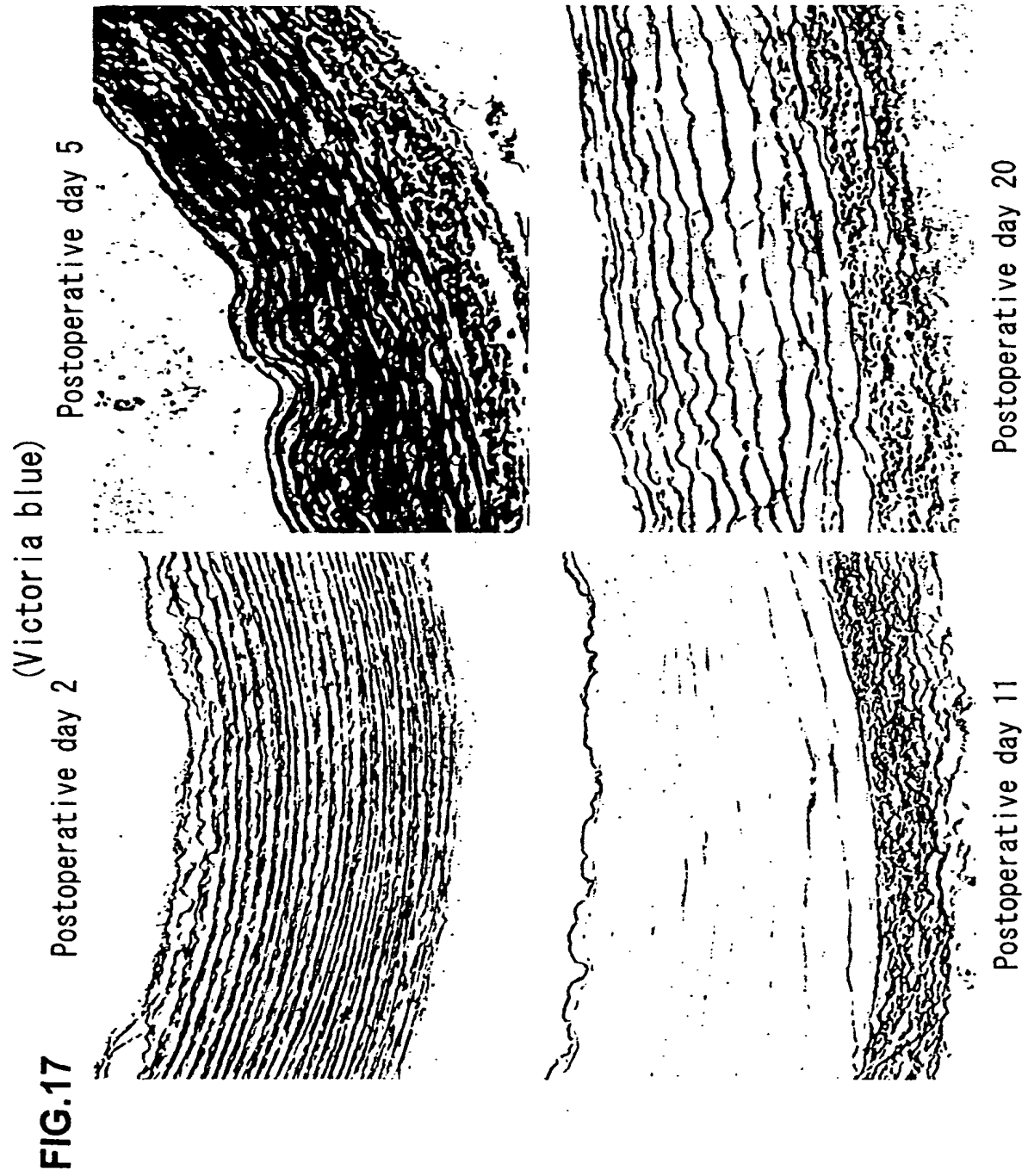
(Sirius red, Victoria blue)

Postoperative day 11

**FIG.16**



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**FIG.18**

(Factor VIII)

Postoperative day 2

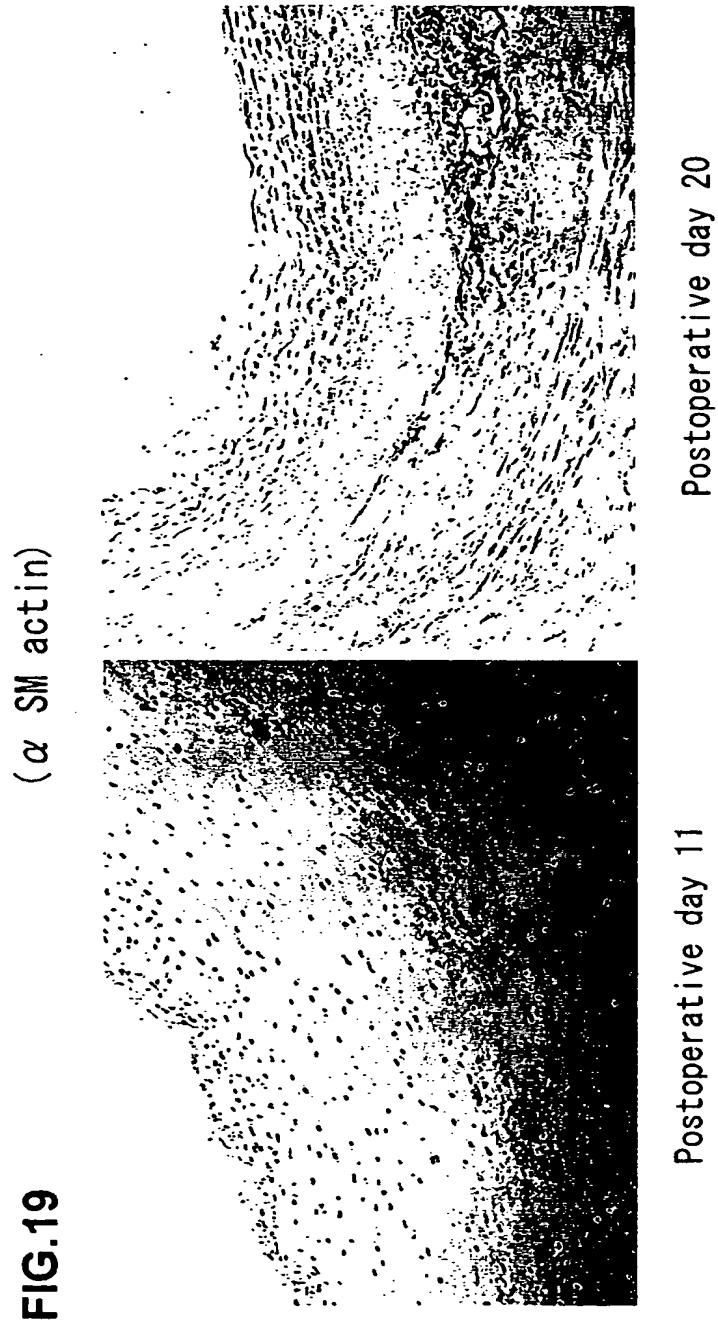
Postoperative day 5



Postoperative day 20



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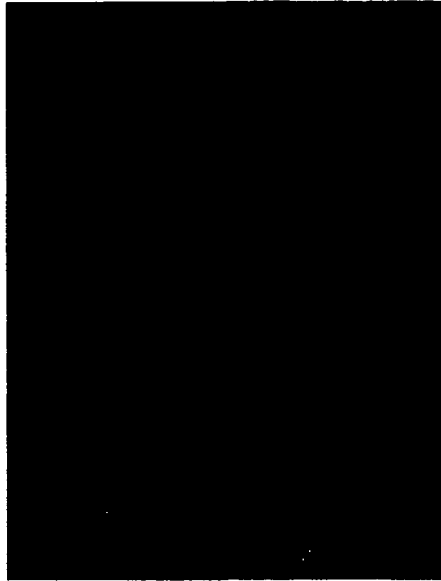


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FIG. 20



pericardium PEG



pericardium PEG

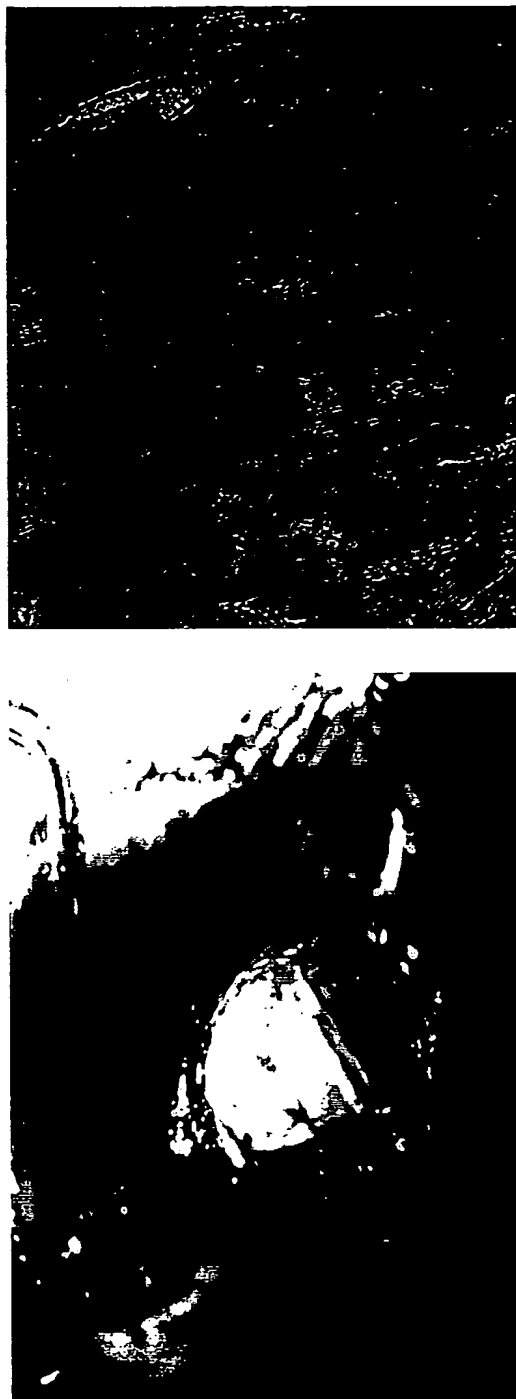
Pericardium decellularized by PEG treatment

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**FIG.21**Pericardium decellularized  
by PEG treatmentPericardium decellularized  
by surfactant treatment



FIG.22



Implantation of pericardium decellularized  
by PEG treatment into cardiac infarct, and cardiac muscle tissue

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